

This condition caused persistent rains in the provinces of Cautin, Valdivia, Llanquihue and Chiloe.

In Argentina, heavy rains and electrical storms occurred in the northern and central parts during the 9th, 10th, and 11th.

In Bolivia, very heavy rains took place during the 14th, 15th, and 16th. These rains extended into the southwest, causing severe floods in the Chilean provinces of Tarapaca and Antofagasta. The Rio Loa rose to extraordinary stages, doing severe damage to various towns and nitrate factories.

On the 16th an important barometric depression appeared from the west approaching South America off the central region of Chile. On the 17th, a pronounced fall of pressure took place in the Islands of Juan Fernandez, and on the 18th the depression began to affect the continent. On the 19th there were scattered rains between Valparaiso and Valdivia. On the 20th, the depression continued its southward progress, and abundant rains occurred between the provinces of Cautin and Magellanes.

In Argentina, during the 19th and 20th, a great depression existed in the northern region, and caused violent wind storms with lightning and thunder, rain, and hailstones of large size.

During the later days of the month a notable rise of pressure took place in southern Chile, resulting in the establishment of an anticyclonic center in the latitude of Chiloe, and the return of atmospheric conditions to normal.

March.—The outstanding meteorological feature was the frequency of disturbances in the southern region of the continent.

During the first days of the month pressure was high over northern Argentina and Uruguay. At this time light rains fell in the southern part of the province of Buenos Aires and in the territory of Rio Negro; electrical storms, with hail, occurred in central La Pampa on the 3d.

From the 4th to the 6th an area of high pressure formed in the region of Chiloe. On the 7th a V-shaped depression was accompanied by electrical storms, rain, and hail in Chilean provinces from Colchagua to Malleco.

A depression appeared in the south off Cabo Raper on the 10th; it caused rains over the whole southern region on the 11th and 12th.

A moderately heavy snow fell in Magellanes on the 15th.

During the following days an anticyclone formed in the south and this condition remained until the 26th; during this period a maximum pressure of 770 mm. (30.32 inches) was recorded at Puerto Madryn on the Atlantic coast.

Scattered rains fell in Argentina on the 24th and again from the 28th to the 30th.

A depression from the west appeared off central Chile on the 27th; on the next day it affected conditions in the south, bringing violent electrical storms, with rain and hail, in the provinces from Bio-Bio to Chiloe. During the following days it moved away toward the south, its path passing near the South Shetland and South Orkney islands into the antarctic glacial sea.

On the whole the month of March was more rainy than normal in southern Chile. In Argentina and Uruguay rains were frequent and in Bolivia and the high regions of Peru they were rather abundant.

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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING MARCH, 1925

By HERBERT H. KIMBALL, In Charge, Solar Radiation Investigations

For a description of instruments and exposures, and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January, 1924, 52: 42 and January, 1925, 53: 29.

From Table 1 it is seen that solar radiation intensities averaged somewhat above normal values for March at Washington and Lincoln, and somewhat below at Madison. A noon reading of 1.55 gram-calories per min. per cm² at Lincoln on the 14th almost equals the previous March maximum at that station of 1.56. A note on the original record reads "The high wind with snow yesterday [March 13] seems to have cleared the air to an exceptional degree."

Table 2 shows that the total solar and sky radiation received on a horizontal surface averaged below normal at Lincoln and slightly above normal at Washington and Madison.

At Washington skylight polarization measurements made on five days give a mean of 56 per cent, with a maximum of 65 per cent on the 19th. These are close to normal values for March at Washington. At Madison, measurements made on six days give a mean of 56 per cent with a maximum of 63 per cent on the 26th. These are slightly below normal values for March at Madison.

TABLE 1.—Solar radiation intensities during March, 1925

[Gram-calories per minute per square centimeter of normal surface]

Washington, D. C.

Date	Sun's zenith distance									
	8 a.m.		78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°
	75th mer. time		Air mass							
	e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0
Mar. 2	mm.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	mm.
5	0.53	—	—	—	—	1.21	1.57	1.30	—	0.81
10	5.16	—	—	—	—	—	—	—	—	4.17
12	2.16	—	0.83	0.95	1.20	1.41	1.05	—	—	3.45
23	3.00	—	—	—	—	—	—	0.68	—	5.79
24	6.76	—	—	—	—	—	1.33	1.18	—	5.16
26	5.16	—	0.95	1.07	—	—	—	—	—	6.27
28	3.00	—	1.10	1.21	1.37	1.55	—	—	—	3.15
30	3.81	—	—	—	—	—	—	1.20	—	4.75
31	3.30	—	1.17	1.37	—	—	—	1.17	—	2.87
Means	—	(0.96)	1.07	1.24	—	—	—	1.12 (1.18)	—	—
Departures	—	—0.07	—0.11	—0.08	—	—	—	—0.18	+0.01	—

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TABLE 1.—Solar radiation intensities during March, 1925—Contd.

Madison, Wisconsin

Date	8 a.m.	Sun's zenith distance									Noon
		78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
		75th mer. time	Air mass								
e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.	
Mar. 2	mm.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	cal.	mm.	
5	0.53	—	—	—	—	1.21	1.57	1.30	—	0.81	
10	5.16	—	—	—	—	—	—	—	—	4.17	
12	2.16	—	0.83	0.95	1.20	1.41	1.05	—	—	3.45	
23	3.00	—	—	—	—	—	—	0.68	—	5.79	
24	6.76	—	—	—	—	—	1.33	1.18	—	5.16	
26	5.16	—	0.95	1.07	—	—	—	—	—	6.27	
28	3.00	—	1.10	1.21	1.37	1.55	—	—	—	3.15	
30	3.81	—	—	—	—	—	—	1.20	—	4.75	
31	3.30	—	1.17	1.37	—	—	—	1.17	—	2.87	
Means	—	(0.96)	1.07	1.24	—	—	—	1.12 (1.18)	—	—	
Departures	—	—0.07	—0.11	—0.08	—	—	—	—0.18	+0.01	—	

Lincoln, Nebraska

Mar.	8 a.m.	Sun's zenith distance									Noon
		78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	
		75th mer. time	Air mass								
e.	5.0	4.0	3.0	2.0	*1.0	2.0	3.0	4.0	5.0	e.	
2	1.12	1.14	—	—	—	—	—	—	—	—	1.37
5	4.75	0.70	0.80	0.99	1.17	1.42	—	—	—	—	6.27
14	1.32	1.04	1.19	1.42	1.70	1.37	1.00	—	—	—	1.60
18	3.30	—	—	—	—	1.52	1.25	1.07	0.89	0.76	3.81
19	3.99	0.94	1.06	1.20	1.40	1.64	1.39	1.19	1.04	0.92	2.49
21	3.00	—	1.04	1.17	1.33	1.50	—	—	—	—	3.00
24	5.16	—	—	—	—	1.48	1.25	1.06	0.90	0.76	5.36
25	4.57	—	1.01	1.12	1.28	1.48	1.28	1.10	0.95	0.82	4.87
26	3.30	—	0.79	0.99	1.25	—	1.13	0.98	0.80	—	2.87
27	2.62	1.01	1.12	1.24	1.41	1.56	1.34	1.14	1.02	0.90	1.96
30	3.00	—	1.07	1.17	1.36	1.57	—	—	—	—	2.49
Means	—	0.88	1.01	1.13	1.33	—	1.29	1.07	0.95	0.83	—
Departures	—	±0.00	+0.07	+0.04	+0.04	—	+0.02	±0.00	±0.00	+0.04	—

* Extrapolated.

TABLE 2.—Solar and sky radiation received on a horizontal surface
[Gram-calories per square centimeter of horizontal surface]

Week beginning	Average daily radiation					Average daily departure from normal
	Washington	Madison	Lincoln	Chicago	New York	
	cal.	cal.	cal.	cal.	cal.	
Feb. 26	361	293	310	208	252	+80 +11 -31
Mar. 5	304	229	325	148	242	-2 -77 -39
12	295	298	332	184	255	-42 -26 -60
19	459	355	457	255	306	+101 +13 +45
26	243	445	427	331	180	-132 +86 -1
Excess or deficiency since first of year on Apr. 1, 1925	—	—	—	—	—	-1,099 -1,785 -1,302